

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Application of:  
Thomas Kodadek

Serial No.: 10/754,457

Filed: January 9, 2004

For: METHODS AND COMPOSITIONS  
COMPRISING CAPTURE AGENTS

Group Art Unit: 1645

Examiner: Unknown

Atty. Dkt. No.: UTSD:935US

<b>CERTIFICATE OF MAILING</b> 37 C.F.R. 1.8	
I hereby certify that this correspondence is being deposited with the U.S. Postal Service with sufficient postage as First Class Mail in an envelope addressed to: MS AMENDMENT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450, on the date below:	
June 30, 2004	
Date	Steven L. Highlander

**INFORMATION DISCLOSURE STATEMENT**

**MS AMENDMENT**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56, it is respectfully requested that this Information Disclosure Statement be entered and the documents listed on attached Form PTO-1449 be considered by the Examiner and made of record. Copies of the listed documents required by 37 C.F.R. § 1.98(a)(2) are enclosed for the convenience of the Examiner.

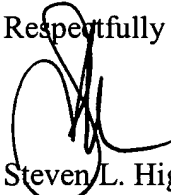
In accordance with 37 C.F.R §§ 1.97(g), (h), this Information Disclosure Statement is not to be construed as a representation that a search has been made, and is not to be construed to be

an admission that the information cited is, or is considered to be, material to patentability as defined in 37 C.F.R. § 1.56(b).

The present Information Disclosure Statement is being filed prior to the receipt of a first Official Action reflecting an examination on the merits, and hence is believed to be timely filed in accordance with 37 C.F.R. § 1.97(b). No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to these materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSD:935US.

Applicant respectfully requests that the listed documents be made of record in the present case.

Respectfully submitted,



Steven L. Highlander  
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June 30, 2004

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Steven L. Highlander

### MS AMENDMENT

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Alexandria, Virginia 22313-1450

RE: *U.S. Patent Application No. 10/754,457 entitled "METHODS AND COMPOSITIONS COMPRISING CAPTURE AGENTS" – Thomas Kodadek*  
*Our reference: UTSD:935US*

Sir:

Enclosed for filing in the above-referenced patent application is an Information Disclosure Statement, Form PTO-1449, and references A1-A13, B1-B9 and C1-C27.

No fees are believed to be due in connection with the filing of this Information Disclosure Statement, however, should any fees under 37 C.F.R. §§ 1.16 to 1.21 be deemed necessary for any reason relating to the enclosed materials, the Commissioner is authorized to deduct the appropriate fees from Fulbright & Jaworski Deposit Account No.: 50-1212/UTSD:935US.

Please date stamp and return the enclosed postcard evidencing receipt of these materials.

Respectfully submitted,

Steven L. Highlander  
Reg. No. 37,642

SLH/kmv  
Encl.: as noted

Form PTO-1449 (modified)

Atty. Docket No.

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Serial No.

10/754,457

List of Patents and Publications for Applicant's

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant

Thomas Kodadek

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## U.S. Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Name	Class	Sub Class	Filing Date of App.
	A1	2002/0006620	1/17/02	Short	435	6	4/03/01
	A2	2002/0022227	2/21/02	Short	435	6	4/12/01
	A3	2002/0098493	7/25/02	Nathan	435	6	5/25/01
	A4	2002/0137106	9/26/02	Leung and Lomas	435	7.9	3/07/02
	A5	4,789,628	12/06/88	Nayak	435	7	6/16/86
	A6	5,149,626	9/22/92	Fleming	435	7.9	12/18/89
	A7	6,297,059	10/02/01	Song and Swanson	436	501	6/22/99
	A8	6,306,643	10/23/01	Galtalen and Chee	435	287.2	8/24/98
	A9	6,344,330	2/05/02	Ellman and Choong	435	7.1	3/27/98
	A10	6,344,334	2/05/02	Ellman and Choong	435	7.1	3/26/99
	A11	6,365,418	4/02/02	Wagner <i>et al.</i>	436	518	5/18/00
	A12	6,406,921	6/18/02	Wagner <i>et al.</i>	436	518	7/14/98
	A13	6,465,183	10/15/02	Wolber	435	6	7/01/99

## Foreign Patent Documents

Exam. Init.	Ref. Des.	Document Number	Date	Country	Class	Sub Class	Translation Yes/No
	B1	0268296	5/25/88	Europe			English
	B2	0317804	5/31/89	Europe			English
	B3	0491362	6/24/92	Europe			Abstract
	B4	0586618	7/16/97	Europe			English
	B5	0818467	1/14/98	Europe			English
	B6	WO 01/69258	9/20/01	PCT			English
	B7	WO 02/31510	4/18/02	PCT			English

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INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

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	B8	WO 02/063299	8/15/02	PCT			English
	B9	WO 03/074990	9/12/03	PCT			English

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

Exam. Init.	Ref. Des.	Citation
	C1	Bachhawat-Sikder and Kodadek, "Mixed-element capture agents: a simple strategy for the construction of synthetic, high-affinity protein capture ligands," <i>J. Am. Chem. Soc.</i> , 125:9550-9551, 2003.
	C2	Burkoth <i>et al.</i> , "Toward the synthesis of artificial proteins: the discovery of an amphiphilic helical peptoid assembly," <i>Chem. Biol.</i> , 9:647-654, 2002.
	C3	Cussac <i>et al.</i> , "A Sos-derived peptidimer blocks the Ras signaling pathway by binding both Grb2 SH3 domains and displays antiproliferative activity," <i>FASEB J.</i> , 13:31-38, 1999.
	C4	Fancy and Kodadek, "Chemistry for the analysis of protein-protein interactions: rapid and efficient cross-linking triggered by long wavelength light," <i>Proc. Natl. Acad. Sci., USA</i> , 96:6020-6024, 1999.
	C5	Figliozzi <i>et al.</i> , "Synthesis of N-substituted glycine peptoid libraries," <i>Methods Enzymol.</i> , 267:437-447, 1996.
	C6	Hajkuk <i>et al.</i> , "Discovering high-affinity ligands for proteins," <i>Science</i> , 278(5337):497-499, 1997.
	C7	Han and Kodadek, "Peptides selected to bind the Gal80 repressor are potent transcriptional activation domains in yeast," <i>J. Biol. Chem.</i> , 275(20):14979-14984, 2000.
	C8	Kiessling <i>et al.</i> , "Synthetic multivalent ligands in the exploration of cell-surface interactions," <i>Curr. Opin. Chem. Biol.</i> , 4:696-703, 2000.
	C9	Kirshenbaum <i>et al.</i> , "Sequence-specific polypeptoids: a diverse family of heteropolymers with stable secondary structure," <i>Proc. Natl. Acad. Sci., USA</i> , 95:4303-4308, 1998.
	C10	Kitov <i>et al.</i> , "Shiga-like toxins are neutralized by tailored multivalent carbohydrate ligands," <i>Nature</i> , 403:669-672, 2000.

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Exam. Init.	Ref. Des.	Citation
	C11 ✓	Kodadek, "Protein microarrays: prospects and problems," <i>Chem. Biol.</i> , 8:105-115, 2001.
	C12 ✓	Kodadek, "Development of protein-detecting microarrays and related devices," <i>Trends Biochem. Sci.</i> , 27(6):295-300, 2002.
	C13 ✓	Koehler <i>et al.</i> , "Discovery of an inhibitor of a transcription factor using small molecule microarrays and diversity-oriented synthesis," <i>J. Amer. Chem. Soc.</i> , 125:8420-8421, 2003.
	C14 ✓	Kuruvilla <i>et al.</i> , "Dissecting glucose signaling with diversity-oriented synthesis and small-molecule microarrays," <i>Nature</i> , 416:653-657, 2002.
	C15 ✓	Ladbury <i>et al.</i> , "Measurement of the binding of tyrosyl phosphopeptides to SH2 domains: a reappraisal," <i>Proc. Natl. Acad. Sci., USA</i> , 92:3199-3203, 1995.
	C16 ✓	Maly <i>et al.</i> , "Combinatorial target-guided ligand assembly: identification of potent subtype-selective c-Src inhibitors," <i>Proc. Natl. Acad. Sci., USA</i> , 97:2419-2424, 2000.
	C17 ✓	Melcher and Xu, <i>EMBO J.</i> , "Gal80-Gal80 interaction on adjacent Gal4p binding sites is required for complete GAL gene repression," 20:841-851, 2001.
	C18 ✓	Merritt <i>et al.</i> , "Characterization and crystal structure of a high-affinity pentavalent receptor-binding inhibitor for cholera toxin and E. coli heat-labile enterotoxin," <i>J. Amer. Chem. Soc.</i> , 124:8818-8824, 2002.
	C19 ✓	Olejniczak <i>et al.</i> , "Stromelysin inhibitors designed from weakly bound fragments: effects of linking and cooperativity," <i>J. Amer. Chem. Soc.</i> , 119:5828-5832, 1997.
	C20 ✓	Oliver <i>et al.</i> , "Multiplexed Analysis of Human Cytokines by Use of the FlowMetrix System," <i>Clinical Chemistry</i> , 44:2057-2060, 1998.
	C21 ✓	Schreiber, "Target-oriented and diversity-oriented organic synthesis in drug discovery," <i>Science</i> , 287(5460), 1964-1969, 2000.
	C22 ✓	Shuker <i>et al.</i> , "Discovering high-affinity ligands for proteins: SAR by NMR," <i>Science</i> , 274:1531-1534, 1996.
	C23 ✓	Stoll <i>et al.</i> , "Chalcone derivatives antagonize interactions between the human oncoprotein MDM2 and p53," <i>Biochemistry</i> , 40:336-344, 2001.
	C24 ✓	Tersikh <i>et al.</i> , "'Peptabody': a new type of high avidity binding protein," <i>Proc. Natl. Acad. Sci., USA</i> , 94:1663-1668, 1997.

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Exam. Init.	Ref. Des.	Citation
	C25	Thoma <i>et al.</i> , "Nanomolar E-selectin inhibitors: 700-fold potentiation of affinity by multivalent ligand presentation," <i>J. Amer. Chem. Soc.</i> , 123:10113-10114, 2001.
	C26	Vignali, "Multiplexed particle-based flow cytometric assays," <i>J. of Immunol. Methods</i> , 243:243-255, 2000.
	C27	Woodbury and Vinton, "Methods of screening combinatorial libraries using immobilized or restrained receptors," <i>J. Chromatogr B Biomed. Sci. Appl.</i> , 725:113-137, 1999.

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